

## General Technical Base Competency 5.6

---

**Competency 5.6** Using the Department of Energy Hoisting and Rigging Manual, personnel shall demonstrate knowledge of the principles of material handling, hoisting, and rigging necessary to identify safe/unsafe work practices.

### 1. Supporting Knowledge and Skills

- a. Describe management's responsibility and accountability with regards to hoisting and rigging.
- b. Discuss operating practices for hoisting and rigging operations.
- c. Describe good and bad rigging practices.
- d. Define critical lifts.

### 2. Self-Study Activities (corresponding to the intent of the above competency)

Below are two web sites containing many of the references you may need.

Web Sites		
Organization	Site Location	Notes
Department of Energy	<a href="http://wastenot.inel.gov/cted/stdguido.html">http://wastenot.inel.gov/cted/stdguido.html</a>	DOE Standards, Guides, and Orders
OSHA	<a href="http://www.osha-slc.gov/">http://www.osha-slc.gov/</a>	OSHA documents and search engine
U.S. House of Representatives	<a href="http://law.house.gov/cfr.htm">http://law.house.gov/cfr.htm</a>	Searchable Code of Federal Regulations

**Review** 29 CFR 1926, "Safety and Health Regulations for Construction" and DOE/ID-10500, *Department of Energy Hoisting and Rigging Manual*.

EXERCISE 5.6-A Describe management's responsibility and accountability with regards to hoisting and rigging.

EXERCISE 5.6-B Discuss operating practices for hoisting and rigging operations.

## General Technical Base Competency 5.6

---

EXERCISE 5.6-C Describe good and bad rigging practices.

EXERCISE 5.6-D Define critical lifts.

### 3. Summary

A knowledge of general hoisting and rigging practices and where to find the information is needed, especially in the areas of construction. Simple observation of what is going on within a particular facility will let the casual observer learn much about the safety practices, in general, around a work site.

### 4. Exercise Solutions

EXERCISE 5.6-A Describe management's responsibility and accountability with regards to hoisting and rigging.

ANSWER 5.6-A The safety organization shall review program content for safety significance and include compliance with the training qualification program established and approved by responsible management in its routine audits. Management is responsible to ensure that all operators are trained and qualified prior to operating the equipment.

EXERCISE 5.6-B Discuss operating practices for hoisting and rigging operations.

ANSWER 5.6-B Operating practices listed in 29 CFR 1926.251 - 1926.552 set the limits for the operation of any hoisting and rigging equipment. The practices also place the final responsibility for safe operation of the equipment with the operator.

EXERCISE 5.6-C Describe good and bad rigging practices.

ANSWER 5.6-C Good practices are those that are within the described operating practices listed in the DOE/ID-10500, *Department of Energy Hoisting and Rigging Manual* and bad practices are those that do not fall within those limits.

## **General Technical Base Competency 5.6**

---

EXERCISE 5.6-D Define critical lifts.

ANSWER 5.6-D Critical lifts are lifting operations designated as such because the effect of dropping, upset, or collision of items could:

1. cause significant work delay
2. cause undetectable damage
3. result in significant release of radioactivity or other undesirable conditions
4. present a potentially unacceptable risk of personal injury or property damage